

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A radiant energy radiation apparatus, comprising:

an artificial radiation source including:

i) means for providing radiation in a visible wavelength range as illumination with a deviation (duv) of the chromaticity of light from a Planckian locus in Commission Internationale de l'Eclairage (CIE) 1960 UCS chromaticity diagram within ±0.01; and

ii) means for providing radiation in a predetermined wavelength range of 600 nm to 1100 nm for the purpose of permeating into an organism to maintain/promote biofunctions of the organism,

wherein on an irradiated plane irradiated with said radiation in the predetermined wavelength range of 600 nm to 1100 nm, an irradiance at a wavelength in the predetermined wavelength range of 600 nm to 1100 nm is 0.1 W/m² or more, and

in said irradiated plane, radiant energy of radiation at a wavelength in a range of 1100 nm to 2.5 μm is greater than zero and smaller than radiant energy of radiation at a wavelength in a range of 600 nm to 1100 nm, and

wherein the means for providing radiation in a visible wavelength range and the means for providing radiation in a predetermined wavelength range of 600 nm to 1100 nm are provided concurrently.

2.-31. (Cancelled)

32. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein the radiation means for providing radiation in a visible wavelength range and the radiation means for providing radiation in the predetermined wavelength range are integrated.

33. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein the radiation means for providing radiation in a visible wavelength range and the radiation means for providing radiation in the predetermined wavelength range are independently provided.

34. (Cancelled)

35. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein: radiation in the predetermined wavelength range is radiation in a range of 600 nm to 1100 nm; and the radiation in the range of 600 nm to 1100 nm is radiated while being pulse-modulated at 0.5 to 13 Hz.

36. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein on an irradiated plane to be irradiated with the illumination light, radiant energy of radiation at a wavelength in a range of 600 nm to 1100 nm is equal to or greater than 15% of radiant energy of radiation at a wavelength in a visible wavelength range of 380 nm to 780 nm.

37. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein a radiant efficiency of radiation at a wavelength in a range of 600 nm to 1100 nm is equal to or greater than 0.001 W/lm.

38. (Cancelled)

39. (Currently Amended) A radiant energy radiation apparatus according to claim 1, wherein: the illumination light ~~abs has~~ a color of light which does not cause discomfort; and a deviation (duv) of the chromaticity of light from a Planckian locus in Commission Internationale de l'Eclairage (CIE) 1960 UCS chromaticity diagram is within ± 0.01 .

40.-41. (Cancelled)

42. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein the apparatus is a discharge lamp.

43.-45. (Cancelled)

46. (Previously Presented) A radiant energy radiation apparatus according to claim 42, wherein the discharge lamp is a fluorescent discharge lamp.

47.-49. (Cancelled)

50. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein the apparatus is an incandescent lamp.

51.-55. (Cancelled)

56. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein on an irradiated plane to be irradiated with radiation, an irradiance at a wavelength in a range of 700 nm to 1100 nm is 0.03 W/M² or more.

57. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein: radiation in the predetermined wavelength range is radiation in a range of 700 nm to 1100 nm; and radiation in the range of 700 nm to 1100 nm is radiated while being pulse-modulated at 0.5 to 13 Hz.

58. (Previously Presented) A radiant energy radiation apparatus according to claim 1, wherein on an irradiated plane to be irradiated with radiation, radiant energy of radiation at a wavelength in a range of 1100 nm to 2.5 μ m is smaller than radiant energy of radiation at a wavelength in a range of 700 nm to 1100 nm.

59.-74. (Cancelled)